# API 20 Series Supply Chain Management Standards

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May 8th , 2015

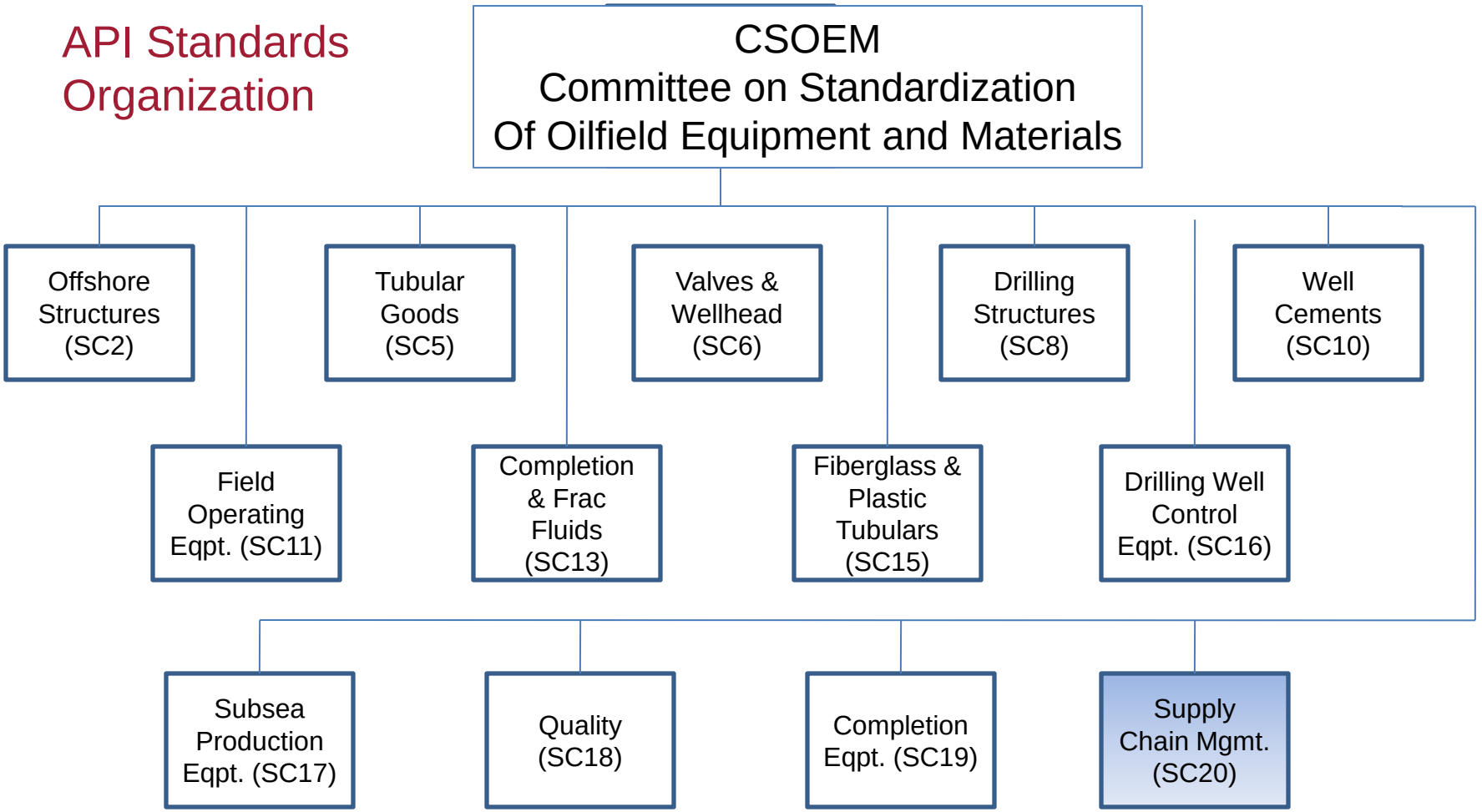
OPTIMUS
Transform2Perform

- Overview of API 20 Series – Supply Chain Management

# Overview of API 20 Series – Supply Chain

- API formed in 1919 as a national trade association
- New organization focuses on three priority issues – industry taxation, statistics, and standards
- Standards Program organized in 1923, first standard published in 1924 on drilling threads
- API now publishes 500 standards covering all industry segments
- API Standards are:
  - Core of Institute's technical authority
  - Represent industry's best practices and are used in worldwide operations
  - Facilitate reasonable regulations
- API is accredited by the American National Standards Institute

# API Standards Organization



# Drivers for Oil & Gas Industry Supply Chain Standards

- Ongoing industry issues with materials and processes deemed critical to the safety and reliability of products used in the Oil and Gas industry.
- Increasingly global supply chain with limited history with oil and gas standards and best practices.
- Increasing requirements for local content and sustainable development initiatives including regulatory compliance.

# Goals of Supply Chain Standards

- Institutionalize best practices for supplier review and qualification.
- Harmonize component and process qualification requirements.
- Establish scalable requirements to address various levels of criticality and risk.
- Allow suppliers, product manufacturers and end users access to the industry's licensing and accreditation program – the API Monogram Program.

# Using API Supply Chain Standards

- **Voluntary licensing and use by the supplier**. Example: Casting, Forging and bolting supplier applies to API for a license for Specification API 20A,or 20B or 20C or 20E can be approved following audits of their quality management system API Q1 and of their facility's compliance with the 20A or 20B or 20C or 20E requirements.

- **Use by the purchaser:** Manufactures **may require** licensing and/or just compliance with API Specification 20A, 20B ,20C,20E,etc as a contractual requirement on material supplied.

- **Use by the end-user:** **May require** that manufactures equipment be produced from API Specification 20A, 20B ,20C,20E,etc compliant components.

# API 20: Supply Chain Standards issued -status

- **Specification 20A:** Castings for use in the Petroleum and Natural Gas Industry. First Edition Published March 2012.

- **Specification 20B:** Open Die Forgings for use in the Petroleum and Natural Gas Industry. First Edition Published April 2013.

- **Specification 20C:** Closed Die Forgings for use in the Petroleum and Natural Gas Industry. First Edition Published October 2009- 2nd edition to be published in 2015.

- **Standard 20D: Qualification of Nondestructive Testing Operations for use in the Petroleum and Natural Gas Industry. 1st Edition Published September 2013.**

- **Specification 20E:** Specification for Low Alloy Steel Bolting for Pressure Containing Gas Equipment. First Edition Published August 2012

# API 20: Supply Chain Standards issued -status

- **Specification 20F:** Corrosion Resistant Bolting for Use in the Petroleum and Natural Gas Industries. Under development- Estimated Publication 4Q 2015.

- **Standard 20G:** Welding services use in the Petroleum and Natural Gas Industry. Under development- Not started yet.

- **Standard 20H:** Heat treat services use in the Petroleum and Natural Gas Industry. Under development- Estimated publication 4Q 2015.

- **Standard 20I:** Quality requirements fro Distributors of Raw materials for use in the Petroleum and Natural Gas Industry. Under development- Estimated publication 2Q 2016.

# API 20: Supply Chain Standards issued -status

Currently there are several Licensee's and application

| Spec No. | Active License | Application for License | Country's |
|---|---|---|---|
| 20A-Castings | 1 | 0 | Italy |
| 20B-Open Die Forgings | 12 | 13 | India, China |
| 20C-Closed Die Forgings | 8 | 1 | India, China |
| 20E-Carbon Steel Fasteners | 9 | 3 | USA, China, Singapore,UK,Mexico |
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# QUESTIONS